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Mathematical Foundations Of Programming Language
Semantics

J. E. Nicholls



Lecture Notes In Computer Science Volume 298 Mathematical Foundations Of Programming Language Semantics:

Mathematical Foundations of Computer Science 1996 Wojciech Penczek, Andrzej Szalas, 1996-08-07 This book constitutes the refereed proceedings of the 21st International Symposium on Mathematical Foundations of Computer Science MFCS 96 held in Crakow Poland in September 1996 The volume presents 35 revised full papers selected from a total of 95 submissions together with 8 invited papers and 2 abstracts of invited talks The papers included cover issues from the whole area of theoretical computer science with a certain emphasis on mathematical and logical foundations The 10 invited presentations are of particular value

Semantics of Programming Languages and Model Theory Manfred Droste, Yuri Gurevich, 1993-09-10 Fourteen papers presented at the conference on title held at the International Conference and Research Center for Computer Science Schloss Dagstuhl June 1991 as well as a few others submitted by colleagues unable to attend reflect the interplay between algebra logic and semantics of programming languages Among the topics are a formal specification of PARLOG synthesis of nondeterministic asynchronous automata observable modules and power domain constructions the Smyth completion of a quasi uniform space current trends in the semantics of data flow and a theory of unary pairfunctions Annotation copyright by Book News Inc Portland OR

Comparative Metric Semantics of Programming Languages Franck van Breughel, 2012-12-06 During the last three decades several different styles of semantics for program ming languages have been developed This book compares two of them the operational and the denotational approach On the basis of several exam ples we show how to define operational and denotational semantic models for programming languages Furthermore we introduce a general technique for comparing various semantic models for a given language We focus on different degrees of nondeterminism in programming lan guages Nondeterminism arises naturally in concurrent languages It is also an important concept in specification languages In the examples discussed the degree of non determinism ranges from a choice between two alternatives to a choice between a collection of alternatives indexed by a closed interval of the real numbers The former arises in a language with nondeterministic choices A real time language with dense choices gives rise to the latter We also consider the nondeterministic random assignment and parallel composition both couched in a simple language Besides non determinism our four example languages contain some form of recursion a key ingredient of programming languages

Ten Years of Concurrency Semantics Jacobus Willem Bakker, J. J. M. M. Rutten, Amsterdam Concurrency Group, 1992 This collection of reprints describes a unified treatment of semantics covering a wide range of notions in parallel languages Included are several foundational and introductory papers developing the methodology of metric semantics studies on the comparative semantics of parallel object oriented and logic programming and papers on full abstraction and transition system specifications In addition links with process algebra and the theory of domain equations are established Throughout a uniform proof technique is used to relate operational and denotational

models The approach is flexible in that both linear time branching time or bisimulation and intermediate models can be handled as well as schematic and interpreted elementary actions The reprints are preceded by an extensive introduction surveying related work on metric semantics

Semantics of Programming Languages Carl A. Gunter, 1992 *Semantics of Programming Languages* exposes the basic motivations and philosophy underlying the applications of semantic techniques in computer science It introduces the mathematical theory of programming languages with an emphasis on higher order functions and type systems Designed as a text for upper level and graduate level students the mathematically sophisticated approach will also prove useful to professionals who want an easily referenced description of fundamental results and calculi Basic connections between computational behavior denotational semantics and the equational logic of functional programs are thoroughly and rigorously developed Topics covered include models of types operational semantics category theory domain theory fixed point denotational semantics full abstraction and other semantic correspondence criteria types and evaluation type checking and inference parametric polymorphism and subtyping All topics are treated clearly and in depth with complete proofs for the major results and numerous exercises

Mathematical Foundations of Computer Science, 1991 *Mathematical Foundations of Computer Science 1991* Andrzej Tarlecki, 1991 This volume contains the proceedings of the 16th International Symposium on Mathematical Foundations of Computer Science MFCS 91 held in Kazimierz Dolny Poland September 9-13 1991 The series of MFCS symposia organized alternately in Poland and Czechoslovakia since 1972 has a long and well established tradition The purpose of the series is to encourage high quality research in all branches of theoretical computer science and to bring together specialists working actively in the area Principal areas of interest in this symposium include software specification and development parallel and distributed computing logic and semantics of programs algorithms automata and formal languages complexity and computability theory and others The volume contains 5 invited papers by distinguished scientists and 38 contributions selected from a total of 109 submitted papers

ZUM '98: The Z Formal Specification Notation Jonathan P. Bowen, Andreas Fett, Michael G. Hinchey, 2011-04-06 1 In a number of recent presentations most notably at FME 96 one of the foremost scientists in the field of formal methods C. A. R. Hoare has highlighted the fact that formal methods are not the only technique for producing reliable software This seems to have caused some controversy not least amongst formal methods practitioners How can one of the founding fathers of formal methods seemingly denounce the field of research after over a quarter of a century of support This is a question that has been posed recently by some formal methods skeptics However Prof Hoare has not abandoned formal methods He is reiterating 2 albeit more radically his 1987 view that more than one tool and notation will be required in the practical industrial development of large scale complex computer systems and not all of these tools and notations will be or even need be formal in nature Formal methods are not a solution but rather one of a selection of techniques that have proven to be useful in the development of reliable complex systems and to result in hardware and software systems that can be produced on time and within a budget

while satisfying the stated requirements After almost three decades the time has come to view formal methods in the context of overall industrial scale system development and their relationship to other techniques and methods

We should no longer consider the issue of whether we are pro formal or anti formal but rather the degree of formality if any that we need to support in system development This is a goal of ZUM 98 the 11th International Conference of Z Users held for the first time within continental Europe in the city of Berlin Germany

Computer Science Logic European Association for Computer Science Logic. Conference, 2001-08-29 This book constitutes the refereed proceedings of the 15th International Workshop on Computer Science Logic CSL 2001 held as the 10th Annual Conference of the EACSL in Paris France in September 2001 The 39 revised full papers presented together with two invited papers were carefully reviewed and selected from 91 submissions The papers are organized in topical sections on linear logic descriptive complexity semantics higher order programs model logics verification automata lambda calculus induction equational calculus and constructive theory of types

Computer Science Logic Laurent Fribourg, 2003-06-30 This book constitutes the refereed proceedings of the 15th International Workshop on Computer Science Logic CSL 2001 held as the 10th Annual Conference of the EACSL in Paris France in September 2001 The 39 revised full papers presented together with two invited papers were carefully reviewed and selected from 91 submissions The papers are organized in topical sections on linear logic descriptive complexity semantics higher order programs model logics verification automata lambda calculus induction equational calculus and constructive theory of types

Z User Workshop, Oxford 1990 J.E. Nicholls, 2013-11-11

Z User Workshop, York 1991 J. E. Nicholls, 2012-12-06 In ordinary mathematics an equation can be written down which is syntactically correct but for which no solution exists For example consider the equation $x \times 1$ defined over the real numbers there is no value of x which satisfies it Similarly it is possible to specify objects using the formal specification language Z 3 4 which can not possibly exist Such specifications are called inconsistent and can arise in a number of ways Example 1 The following Z specification of a function f from integers to integers $f : \mathbb{Z} \rightarrow \mathbb{Z}$ $f(x) = 1$ if $x = 0$ $f(x) = 2$ if $x \neq 0$ is inconsistent because axiom i gives $f(0) = 1$ while axiom ii gives $f(0) = 2$ This contradicts the fact that f was declared as a function that is f must have a unique result when applied to an argument Hence no such f exists Furthermore iff $f(0) = 1$ and $f(0) = 2$ then $1 = 2$ can be deduced From $1 = 2$ anything can be deduced thus showing the danger of an inconsistent specification Note that all examples and proofs start with the word Example or Proof and end with the symbol \square

Algebraic Methodology and Software Technology Armando M. Haeberer, 2003-05-20 AMAST's goal is to advance awareness of algebraic and logical methodology as part of the fundamental basis of software technology Ten years and seven conferences after the start of the AMAST movement I believe we are attaining this The movement has propagated throughout the world assembling many enthusiastic specialists who have participated not only in the conferences which are now annual but also in the innumerable other activities that AMAST promotes and supports We are now facing the Seventh International Conference on Algebraic Methodology and Software

Technology AMAST 98 The previous meetings were held in Iowa City USA 1989 and 1991 in Enschede The Netherlands 1993 in Montreal Canada 1995 in Munich Germany 1996 and in Sydney Australia 1997 This time it is Brazil s turn in a very special part of this colorful country Amazonia Thus if we have done more it is by standing on the shoulders of giants The effort started by Teodor Rus Arthur Fleck and William A Kirk at AMAST 89 was consolidated in AMAST 91 by Teodor Rus Maurice Nivat Charles Rattray and Giuseppe Scollo Then came modular construction of the building wonderfully carried out by Giuseppe Scollo Vangalur Alagar Martin Wirsing and Michael Johnson as Program Chairs of the AMAST conferences held between 1993 and 1997

Formal Models and Semantics Bozzano G Luisa,2014-06-28 The second part of this Handbook presents a choice of material on the theory of automata and rewriting systems the foundations of modern programming languages logics for program specification and verification and some chapters on the theoretic modelling of advanced information processing

Automata, Languages and Programming Michael S. Paterson,1990 In subvolume 27C1 magnetic and related properties of binary lanthanide oxides have been compiled This subvolume covers data obtained since 1980 and can therefore be regarded as supplement to volume III 12c While in the previous volume the majority of magnetic data was obtained either from magnetometric measurements or from neutron diffraction for the present data the main emphasis is devoted to related properties without which however the understanding of classical magnetic properties is impossible A second part 27C2 will deal with binary oxides of the actinide elements

Z User Workshop, Cambridge 1994 J.P. Bowen,J.A. Hall,2012-12-06 This volume contains papers from the Eighth Z User Meeting to be held at the University of Cambridge from 29 30 June 1994 The papers cover a wide range of issues associated with Z and formal methods with particular reference to practical application These issues include education standards tool support and interaction with other design paradigms such as consideration of real time and object oriented approaches to development Among the actual topics covered are the formal specification in Z of Defence Standard 00 56 formal specification of telephone features specifying and interpreting class hierarchies in Z and software quality assurance using the SAZ method Z User Workshop Cambridge 1994 provides an important overview of current research into industrial applications of Z and will provide invaluable reading for researchers postgraduate students and also potential industrial users of Z

Coding Theory and Applications Gérard Cohen,Jacques Wolfmann,1989-09-20 A rich source of information about human voluntary movement in health and disease can be found in this book The most esteemed researchers in their respective fields bring you up to date articles Their collected work combines fundamental research in the life sciences with clinical neuroscience in a unique overview The interdisciplinary aspects of motor physiology uncover a wealth of information for researchers from neighboring disciplines For example oculomotor research vestibular research equilibrium sensory research and cognition evolution synaptic and elementary processes and the neurological sciences can be discovered

Concepts, Design, and Performance Analysis of a Parallel Prolog Machine Joachim Beer,1989-12-13 This monograph presents a novel execution model for the parallel

execution of standard sequential Prolog In this execution model Prolog procedure calls can be efficiently pipelined and the author shows how even fully deterministic Prolog programs can be effectively mapped onto the proposed architecture The design is based on a highly optimized abstract Prolog specific instruction set A special feature of this work is a sophisticated classification scheme for Prolog variables which substantially reduces the overhead for unification with occur check To support the model an architecture consisting of a circular pipeline of independent processors has been designed This pipeline has been designed to work as a co processor to a UNIX based workstation In contrast to other attempts to execute sequential Prolog in parallel the proposed model does not restrict the use of any of the standard Prolog language features The book gives a full account of the execution model the system architecture and the abstract Prolog instruction set *Elementary Categories, Elementary Toposes* Colin McLarty, 1992-06-04 The book covers elementary aspects of category theory and topos theory It has few mathematical prerequisites and uses categorical methods throughout rather than beginning with set theoretic foundations It works with key notions such as cartesian closedness adjunctions regular categories and the internal logic of a topos Full statements and elementary proofs are given for the central theorems including the fundamental theorem of toposes the sheafification theorem and the construction of Grothendieck toposes over any topos as base Three chapters discuss applications of toposes in detail namely to sets to basic differential geometry and to recursive analysis Introduction PART I CATEGORIES Rudimentary structures in a category Products equalizers and their duals Groups Sub objects pullbacks and limits Relations Cartesian closed categories Product operators and others PART II THE CATEGORY OF CATEGORIES Functors and categories Natural transformations Adjunctions Slice categories Mathematical foundations PART III TOPOSES Basics The internal language A soundness proof for topos logic From the internal language to the topos The fundamental theorem External semantics Natural number objects Categories in a topos Topologies PART IV SOME TOPOSES Sets Synthetic differential geometry The effective topos Relations in regular categories Further reading Bibliography Index

CSL'88 Egon Börger, Hans Kleine Büning, Michael M. Richter, 1989-09-06 This volume contains the papers which were presented at the second workshop Computer Science Logic held in Duisburg FRG October 3 7 1988 These proceedings cover a wide range of topics both from theoretical and applied areas of computer science More specifically the papers deal with problems arising at the border of logic and computer science e g in complexity data base theory logic programming artificial intelligence and concurrency The volume should be of interest to all logicians and computer scientists working in the above fields

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